360 Advantages: CP-A221N

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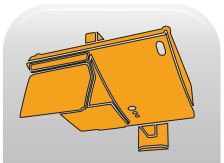

Fully featured ultra short throw projector with network capabilities and a low operating cost all in a portable design.

COLOR LIGHT OUTPUT 2200

The color light output spec measures the brightness of red, green, and blue, which create all the possible spectrum of colors. Smooth, seamless colors combined with an unparalleled grayscale range delivers incredible detail to every image displayed by a Hitachi 3LCD projector.

Featuring an ultra short throw lens which will project a 80" image at 20" from edge of projector. This not only prevents shadows caused by obstructions but also means no shadows and no light shining in the presenter's eyes.

WHITE LIGHT OUTPUT 2200

2,200 lumens of white light output in conjunction with equal color light output project bright, clear, true to life images in any classroom or conference room.

PF 2

Perfect Fit 2 enables the user to adjust individual corners and sides independent of one another. Perfect Fit 2 provides vertical and horizontal digital correction of either barrel or pin cushion distortions. This feature helps correct geometric and complicated distortions. Perfect Fit 2 allows the projected image to fit correctly to the screen quickly and easily.

Advantage Highlights

- Tabletop Mounting with Optional Stand
- Drawing Function with Optional Tablet (TB-1)
- Network Control, Maintenance and Security
- PC-Less Presentation
- PJMessenger
- Present Content via LAN
- Input Source Naming
- Transition Detector and Security Bar
- Microphone Input
- Display via USB
- Template Function
- IR Remote Frequency Change
- MyButton / MySource - Doc Camera
- PIN Lock / MyScreen / MyText
- Serial Number and MAC Address Label on Side

Specification Highlights

- XGA Resolution (1024 x 768)
- White Light Output: 2,200 Lumens
- Color Light Output: 2,200 Lumens
- 4,000 Hour Hybrid Filter
- 5,000 Hour Lamp Life (Eco Mode)*
- 2000:1 Contrast Ratio (Using Active Iris)
- 10 Watt Audio Output
- HDMI (HDCP Compliant)
- 29 dB (EcoMode)
- 8.6 Lbs.
- Less Than 1W in Power Saving Standby Mode

* Actual lamp life will vary by individual lamp and based on environmental conditions, selected operating mode, user settings and usage. Hours of average lamp life specified are not guaranteed and do not constitute part of the product or lamp warranty. Lamp brightness decreases over time.

3LCD

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5,000 Hour Lamp Life (Eco Mode)*

Another key to low total cost of ownership is a long life lamp. The lamp is rated at 3,000 hours in standard mode and 5,000 hours in Eco mode.

Hybrid Filter (4,000 Hours between maintenance)**

Hitachi's hybrid filter consists of a two-stage, layered design and an electrostatic filter, providing dust protection for up to 4,000 hours.

2000:1 Contrast Ratio

Contrast can be automatically controlled through an active iris to add depth perspective during both bright and dark scenes.

Tabletop Presentation

Make any tabletop a projection screen using the optional tabletop stand. Ideal for a small group environment or in a room with limited space.

Drawing Function with Optional Tablet (TB-1)

The optional Hitachi wireless tablet and pen allows you to engage your audience by annotating over any image.

Network Control, Maintenance and Security

Projector management application (PJMan) allows users to monitor and control multiple projectors over LAN. Features include scheduling of events, e-mail alerts for reactive and routine maintenance. Crestron RoomView Express and AMX Device Discovery is embedded into the projector which provides out of the box compatibility with Crestron and AMX Systems.

PC-Less Presentation

By using a USB memory stick or other storage device, you can use the projector without a computer. Menus are easy to see with a thumbnail display. Additionally there is also a slideshow function.

PJMessenger

PJMessenger function allows you to send and display text messages and audio alerts on your networked projectors. It is an easy and efficient way to send campus wide announcements.

Present Content via LAN

Hitachi's suite of networking software allows you to easily send content directly from your PC to the projector via your LAN connection.

Input Source Naming

Users can name input sources in simple language instead of factory default name.
Exclusive to Hitachi.

Transition Detector and Security Bar

A security sensor located inside the projector recognizes when the projector has been moved. Moving the projector without using the correct PIN Code will disable the projector.

Microphone Input

Research studies have shown that the use of microphones improve classroom test scores. The CP-A221N provides a dedicated microphone jack that even works in standby mode.

Display via USB

Connect to your computer using the USB port.

Template Function

Line templates in the projector menu can help when writing on a whiteboard. There are four types of line templates to choose from. **Exclusive to Hitachi.**

IR Remote Frequency Change

To avoid conflict with fluorescent lights or IrDA (IR Signal) from notebook PC, the frequency of the IR remote control can be changed from the menu.
Exclusive to Hitachi.

MyButton / MySource - Doc Camera

Two customizable buttons on the remote control allow users to create a shortcut for any projector command such as: Direct input (RGB1, S-video, etc.), picture mode or filter reset. For connection to a document camera, MySource allows users to add a third document camera source button.

PIN Lock / MyScreen / MyText

PIN lock protection can limit projector users. MyScreen PIN lock keeps captured images on the startup screen. Users can set a school's name or company's logo to MyScreen, clearly identifying ownership. MyText provides the ability to write text on the startup screen such as model name, serial number or location.

Serial Number and MAC Address Label on Side

A label is affixed to side of projector to more easily access and read the model name and serial number while mounted in ceiling use. This is a convenience for installers, end user and auditors for instant accessibility.

10 Watt Audio Output

10W audio output eliminates the need to connect external speakers.

HDMI Input (HDCP)

HDMI

Digital connectivity allows for highest image quality from your HD device. Compliancy with HDCP.

Power Saving Standby Mode

Power saving mode reduces the standby power consumption to less than 1W.

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** Actual filter life will vary by individual filter and based on environmental conditions, selected operating mode, user settings and usage. Hours of average filter life specified are not guaranteed and do not constitute part of the product warranty.

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Complete Specifications: CP-A221N

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Projection Throw Chart

Aspect Ratio 4:3

Screen Diagonal**	Distance from Leading Edge of Projector to Screen**	Distance from Mirror to Screen**
60	3.8	15.9
70	6.3	18.4
80	8.9	20.9
90	11.4	23.5
100	13.9	26.0

Throw Ratio from Edge of Projector: 0.1 : 1
Throw Ratio from Mirror: 0.3:1

**Measured in inches

Input/Output Terminals

3LCD Technology

Closed Captioning

Hitachi Trade-Up Program

AMX Device Discovery

Crestron Integrated Partner

3 Year Warranty

HDMI

Specifications	
Projection Technology	3LCD, 3 chip technology
Number of Pixels	786,432 pixels
Resolution	
Video	540 TV lines
RGB	1024 dots x 768 lines
Colors	16.7 million colors
Aspect Ratio	Native 4:3
Lens	F = 4.1 mm
Throw Ratio (distance : width)	0.3 : 1
Lamp	210W
White Light Output	2,200 ANSI lumens
Color Light Output	2,200 ANSI lumens
Expected Lamp Life	Approximately 3,000 hours (standard mode), 5,000 hours (Eco mode)*
Contrast Ratio	2000 : 1 (using active IRIS)
Speaker Output	10W
Power Supply	AC90 - 132V / AC198 - 264V 50/60 Hz power
Power Consumption	310W
Operating Temperature	41˚F - 95˚F (5˚C - 35˚C)
Input Signals	
Computer	VGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA, MAC 16"
Composite Video	NTSC, NTSC4.43, PAL, PAL-M, -N, SECAM
Component Video	480i, 480p, 576i, 720p, 1080i, 1080p
HDMI	480i, 480p, 576i, 720p,1080i, 1080p, computer signal — TMDS clock 27 MHz to 150 MHz
Acoustic Noise Level	35 dB (29 dB in Eco mode)
H-Sync	15 kHz - 106 kHz
V-Sync	50 Hz - 120 Hz
Approvals	UL, C-UL, FCC, CE
Computer Input	
Analog Computer 1	15-pin D-sub connector x 2
Analog Computer 2	N/A
Computer Monitor Output	15-pin D-sub connector x 1
Digital Input	HDMI x 1
Video Input	
S-Video	Mini DIN 4-pin connector x 1
Composite Video	RCA jack x 1
Component Video	15-pin D-sub connector (shared with analog RGB)
Audio	
Input	3.5 mm stereo mini jack x 2, RCA jack (L,R) x 1, mic in 3.5 mm mini jack x 1 (mono,unbalanced)
Output	RCA (L/R) x 1 pair
Network (LAN)	RJ-45 port / 100 base-T
Control Terminals	9-pin D-sub connector x 1 (RS-232 control)
Dimensions (W x D x H)	13.6" x 11.9" x 4.0"
Weight	8.6 lbs.
Closed Captioning	CC1, CC2, CC3, CC4, T1, T2, T3, T4
Supplied Accessories	Remote control with two AA batteries, power cord, computer cable, user's manual, network manual
Optional Accessories	AW250NWALLARM, A3WALLARM, TB-1 wireless pen tablet, TT-251 tabletop stand
Replacement Parts	
Lamp	CPAW251NLAMP (DT01251)
Remote Control	HL02772
Filter	UX37191

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